

What is Claimed is:

1. A fin assembly for a heat sink, comprising a plurality of metal plates stacked with each other, each of the metal plates comprising a body member and a plurality of connecting structures protruding perpendicularly from the body member, wherein each of the body members is perforated with a plurality of through holes.

2. The fin assembly of Claim 1, wherein each of the connecting structures comprises a partitioning part and a latching part extending from the partitioning part, the latching part is aligned with the corresponding through hole.

3. The fin assembly of Claim 2, wherein each connecting structure further comprises a connecting part between the partitioning part and the latching part.

4. The fin assembly of Claim 3, wherein the connecting part has a length the same as the thickness of the body member.

5. The fin assembly of Claim 3, wherein the connecting part has a length larger than the thickness of the body member.

6. The fin assembly of Claim 2, wherein each latching part of each metal plate is inserted through the corresponding through hole of the metal plate placed in front.

7. The fin assembly of Claim 5, wherein the latching part inserted through the corresponding through hole of the metal plate placed in front is bent as a hook.

8. The fin assembly of Claim 1, wherein each body member includes a top folded edge and a bottom folded edge along an elongate direction thereof.

9. The fin assembly of Claim 8, wherein the top and bottom folded edges are perpendicular to the body member.

10. The fin assembly of Claim 1, wherein each metal plate includes four connecting structures located at four diagonal corners of the body member thereof.